

Appl.No.: 09/899,744
Amendment dated February 27, 2004
Response to Office Action mailed November 28, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original) A method of transmission, comprising:

- (a) convolution encoding a block of bits with each of codes g_1, g_2, \dots, g_n where n is an integer greater than 1 to yield n packets of encoded bits;
- (b) transmitting said packet encoded with g_1 from step (a);
- (c) transmitting said packet encoded with g_2 from step (a) in response to a received request for transmission.

aj Claim 2 (original) The method of claim 1, wherein:

- (a) said block of bits includes data bits plus check bits.

Claim 3 (original) A method of reception, comprising:

- (a) decoding a received packet of bits which includes data bits and check bits, said packet encoded with convolution code g_1 ;
- (b) when the decoding of step (a) indicates an error, receiving and decoding a packet of said data bits and check bits encoded with convolution code g_2 where g_1 differs from g_2 ;
- (c) when said decoding of step (b) indicates an error, decoding a combination of said packet encoded with code g_1 with said packet encoded with code g_2 .

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Claim 4 (original) The method of claim 3, further comprising:

(a) when the decoding of step (a) of claim 3 indicates an error, sending a request for a packet of said data bits and check bits encoded with convolution code g2.

Claim 5 (original) The method of claim 3, wherein:

(a) said decoding of step (c) uses the Viterbi algorithm.

Claim 6 (original) The method of claim 3, wherein:

(a) said decoding of step (c) of claim 3 combines said packet encoded with g1 and said packet encoded with g2 by weighting each of said packets according to a transmission channel fading amplitude during reception of said each of said packets.